

ECS Ai	
Types	-organ specific -generalized (SLE)
Epidim	-females
Damage by	-Ig only (hyperstimulate receptors, or block them) -cell mediated immunity CMI (immune cells attacking tissues)
Note	-not every patient with Ai means he's suffering some disease (could be diseases-free)
Examples	Adrenal -addison's disease (chronic, lessens steroids production) Gonads (rare) -oophoritis (ovaries infl) -orchitis (testis infl) PG -lymphocytic hypophysitis (lessens PG hormones production)

Hashimoto	
Aka	Chronic lymphocytic thyroiditis
Epidim	-very, very common
Gene	-risk: HLA- <u>DR4</u> -protective: HLA- <u>DR13</u>
Damage by	-Ig damaging peroxidase & TG -T-helper cells attack thyroid cells
Pathogenesis	- <u>delayed type hypersensitivity</u> causing lymphocytic follicles (follicles filled with lymphocytes, plasma cells & macrophages)
Symptoms	-hypotism -goiter
Graves	
Aka	Long-acting thyroid stimulating Ig
gene	-risk: HLA- <u>DR3</u> -protective: HLA- <u>DR7</u>
Pathogenesis	Ig mimicking TSH (no negative FB, cuz PG will stop releasing TSH due to the inc in thyroids, but Ig will still bind to thyroid gland and command more release of thyroids)
Symptoms	Hypertism

Insulin-dependent DM	
Aka	<u>Insulinitis</u> or <u>type 1 diabetes</u>
Note	<ul style="list-style-type: none"> -panc related -panc beta cells produce insulin which lowers blood glucose -Insulin-dependent DM patients are at risk of other Ai diseases
Pathogenesis	<ul style="list-style-type: none"> -<u>delayed type hypersensitivity</u> causing T-cells to tag panc beta-cells for macrophages to destroy them -we think <u>cox & echo viruses</u> somehow trigger this, by mildly damaging beta-cells and T-cells will cont. -or beta-cells might exert HCL Ag which will trigger T-cells to attack them
Addison's	
Gene	<ul style="list-style-type: none"> -Risk: HLA-DR3/4 -adrenal targeted Ag: 21-hydroxylase (makes <u>cortisol</u> & <u>aldosterone</u>)
Damage by	<ul style="list-style-type: none"> -Ig (could be primary or secondary to T-cell damage) -T-cell tagging adrenal gland -other cortex damagers: inf, hemorrhage, tumors, anticoag. drugs
Pathogenesis	Ig destructing adrenal steroid producing cells
Symptoms	<ul style="list-style-type: none"> <li style="width: 25%;">-weakness <li style="width: 25%;">-weight loss <li style="width: 25%;">-poor appetite <li style="width: 25%;">-shock <li style="width: 25%;">-skin pigmentation <li style="width: 25%;">-hypotension